

Claims

[c1] 1. A protective packaging device for mitigation of blast effect and fragmentation of an energetic element when the energetic element is detonated, said device comprising:

at least one protective housing member in which an energetic element is received, said housing member being comprised of a mesh material for retaining fragments of the energetic element upon detonation thereof while providing controlled release through the mesh material of gases formed upon detonation.

[c2] 2. A device as claimed in claim 1 wherein said at least one housing member comprises inner and outer nested housing members comprised of a mesh material and forming a protective housing assembly.

[c3] 3. A device as claimed in claim 2 wherein said device further comprises at least one cushioning container comprised of a cushioning material having a plurality of open compartments therein and wherein a plurality of said protective housing assemblies are provided, each of said protective housing assemblies being received in a respective one of said compartments of said cushioning

material.

- [c4] 4. A device as claimed in claim 3 wherein said container includes a cover.
- [c5] 5. A device as claimed in claim 4 wherein said at least one cushioning container comprises a plurality of stackable containers.
- [c6] 6. A device as claimed in claim 5 wherein said energetic element comprises a grenade, said inner and outer nested housing members are of substantially cup-shaped construction and said inner housing member has an inner profile substantially matching that of the grenade.
- [c7] 7. A device as claimed in claim 6 wherein the grenade includes an operating lever and the inner profile of said inner housing member includes a recess for accommodating said lever.
- [c8] 8. A device as claimed in claim 2 wherein said housing members are constructed of steel mesh.
- [c9] 9. A device as claimed in claim 2 wherein said energetic element comprises a grenade, said inner and outer nested housing members are of substantially cup-shaped construction and said inner housing member has

an inner profile substantially matching that of the grenade.

- [c10] 10. A device as claimed in claim 9 wherein the grenade includes an operating lever and the inner profile of said inner housing member includes a recess for accommodating said lever.
- [c11] 11. A protective packaging device for mitigation of blast effect and fragmentation of a hand grenade when the grenade is detonated, said device comprising:
at least one protective housing member in which a hand grenade is received, said housing member being comprised of a mesh material for retaining fragments of the grenade upon detonation thereof while providing controlled release through the mesh material of gases formed upon detonation of the hand grenade.
- [c12] 12. A device as claimed in claim 10 wherein said at least one housing member comprises inner and outer nested housing members comprised of a mesh material and forming a protective housing assembly.
- [c13] 13. A device as claimed in claim 12 wherein said device further comprises at least one cushioning container comprised of a cushioning material having a plurality of open compartments therein and wherein a plurality of

said protective housing assemblies are provided, each of said housing assemblies being received in a respective one of said compartments of said cushioning material.

[c14] 14. A d evice as claimed in claim 13 wherein said container includes a cover.

[c15] 15. A d evice as claimed in claim 14 wherein said at least one cushioning container comprises a plurality of stackable containers stacked to form a unit.

[c16] 16. de vice as claimed in claim 12 wherein said housing members are made of steel mesh.